

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****In re the Application of:****William Bridge****Serial No.: Filed Herewith****Filed: March 15, 2004****For: METHOD AND APPARATUS FOR  
MANAGING DATA ACCESS AND  
STORAGE OF DATA LOCATED ON  
MULTIPLE STORAGE DEVICES****Group Art Unit: Not Yet Assigned****Examiner: Not Yet Assigned****INFORMATION DISCLOSURE STATEMENT**

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 CFR §§ 1.97 and 1.98, the items identified in this Information Disclosure Statement ("IDS") are brought to the attention of the Office. The items are listed on the attached forms PTO/SB/08a and PTO/SB/08b. Copies of the items listed on the attached forms PTO/SB/08a and PTO/SB/08b are not supplied because they were previously cited by or submitted to the Patent Office in prior Application No. 10/008,347 filed on November 9, 2001, and relied upon in this application for an earlier filing date under 35 U.S.C. § 120. See 37 C.F.R. § 1.98(d).

The items identified in this IDS may or may not be "material" pursuant to 37 CFR § 1.56. The submission thereof by Applicants is not to be construed as an admission that any such patent, publication or other information referred to therein is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as "prior art" under 35 USC § 102 with respect to this invention unless specifically designated by Applicants as such.

**INFORMATION DISCLOSURE STATEMENT FILING PROVISION:**

☒ This IDS is believed to be timely in that it is being submitted under 37 CFR § 1.97(b), that is (1) within three months of the filing date of the application, which is not a continued prosecution application filed under § 1.53(d) or (2) within three months of entry of the national stage as set forth in 37 CFR § 1.491; or (3) before the mailing of a first Office action on the merits; or (4) before the mailing of a first Office action after filing a request for continued examination under § 1.114. Thus, no fee is required.

☒ However, if the undersigned is in error in this regard, Applicant respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and charge the fee due under 37 CFR § 1.17(p) to the deposit account referenced below.

☐ However, if the undersigned is in error in this regard, Applicant respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and a statement under 37 CFR § 1.97(e) is included below, thus no fee is required.

☐ This IDS is being submitted under 37 CFR § 1.97(c), that is after mailing of a first Office Action on the merits, but before a Final Action under 37 CFR § 1.113 or a Notice of Allowance under 37 CFR § 1.311.

☐ The fee due under 37 CFR § 1.17(p) is submitted herewith.

☐ A statement under 37 CFR § 1.97(e) is included below, thus no fee is required. In the event that this IDS is not received before a Final Action or a Notice of Allowance, then Applicant respectfully requests that the Office consider the filing of these papers to be submitted under 37 CFR § 1.97(d) and charge the fee due under 37 CFR § 1.17(p) to the deposit account below.

☐ This IDS is being submitted under 37 CFR § 1.97(d), that is after a Final Action under 37 CFR § 1.113 or a Notice of Allowance under 37 CFR § 1.311, but before payment of the issue fee. A statement under 37 CFR § 1.97(e) is included below. The fee due under 37 CFR § 1.17(p) is submitted herewith.

☐ This IDS is being submitted under 37 CFR § 1.97(i), that is after a Final Action under 37 CFR § 1.113 or a Notice of Allowance under 37 CFR § 1.311, but before payment of the issue fee.

**STATEMENT UNDER 37 CFR § 1.97(e):**

- ☐ Each item contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS.
- ☐ No item contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this statement after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of this IDS.

**PAYMENT AND/OR AUTHORIZATION TO CHARGE FEES:**

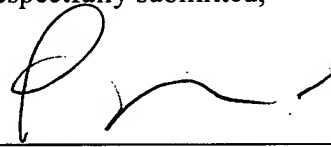
- ☐ A check in the amount of \_\_\_\_\_ is enclosed for the above fee(s).
- ☒ The Commissioner is authorized to charge the fee due under 37 CFR § 1.17(p) and to credit any overpayment and to charge any underpayment to Bingham McCutchen's Deposit Account No. 50-2518, referencing billing no. 7011323001, for any fees required by the filing of these papers.

Dated: \_\_\_\_\_

3/15/04

Respectfully submitted,

By: \_\_\_\_\_



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**Complete if Known**

|                               |                |
|-------------------------------|----------------|
| <i>Application Number</i>     | To Be Assigned |
| <i>Filing Date</i>            | HEREWITH       |
| <i>First Named Inventor</i>   | William BRIDGE |
| <i>Art Unit</i>               | To Be Assigned |
| <i>Examiner Name</i>          | To Be Assigned |
| <i>Attorney Docket Number</i> | OIG011323001   |

*(Use as many sheets as necessary)*

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|-------|---|----|---|
| Sheet | 1 | of | 2 |
|-------|---|----|---|

## U.S. PATENT DOCUMENTS

| Examiner Initials * | Cite No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant<br>Figures Appear |
|---------------------|-----------------------|--|--------------------------------|--|---|
|                     |                       | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
|                     | 1.                    | US-5,287,459                               | 02/1994                        | Gniewek  |   |
|                     | 2.                    | US-5,559,764                               | 09/1996                        | Chen et al.  |   |
|                     | 3.                    | US-5,155,845                               | 10/1992                        | Beal et al.  |   |
|                     | 4.                    | US-5,388,108                               | 02/07/1995                     | DeMoss et al.                                      |   |
|                     | 5.                    | US- 5,469,443                              | 11/21/1995                     | Saxena   |   |
|                     | 6.                    | US- 5,790,774                              | 08/04/1998                     | Sarkozy  |   |
|                     | 7.                    | US- 5,862,158                              | 01/19/1999                     | Baylor et al.                                      |   |
|                     | 8.                    | US- 5,893,919                              | 04/13/1999                     | Sarkozy et al.                                     |   |
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|                     | 12.                   | US- 6,138,125                              | 10/24/2000                     | DeMoss   |   |
|                     | 13.                   | US- 6,195,761 B1                           | 02/27/2001                     | Kedem  |   |
|                     | 14.                   | US- 6,223,252 B1                           | 04/24/01                       | Bandera et al.                                     |   |
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|                     | 16.                   | US- 6,405,284 B1                           | 06/11/2002                     | Bridge   |   |
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|                     | 18.                   | US- 5,574,851                              | 11/1996                        | Rathunde   |   |
|                     | 19.                   | US- 5,615,352                              | 03/1997                        | Jacobson et al.                                    |   |
|                     | 20.                   | US- 5,875,456                              | 02/1999                        | Stallmo et al.                                     |   |
|                     | 21.                   | US- 6,000,010                              | 12/1999                        | Legg   |   |
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|                     |                       |  |                                |  |   |
|                     |                       |  |                                |  |   |

## FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>6</sup> |
|--------------------|-----------------------|---|--------------------------------|---|---|----------------|
|                    |                       | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known) |                                |   |   |                |
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|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

<sup>2</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 2

**Complete if Known**

|                        |                |
|------------------------|----------------|
| Application Number     | To Be Assigned |
| Filing Date            | HEREWITH       |
| First Named Inventor   | William BRIDGE |
| Art Unit               | To Be Assigned |
| Examiner Name          | To Be Assigned |
| Attorney Docket Number | OI7011323001   |

**NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials * | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|---------------------|-----------------------|---|----------------|
|                     | 25.                   | Verita Software Corporation, Veritas Volume Manager (VxVM) User's Guide, Release 2.3, 1996  |                |
|                     | 26.                   | Digital Equipment Corporation, Logical Storage Manager, March 1996  |                |
|                     | 27.                   | Digital Equipment Corporation, Introduction to the Logical Storage Manager, pp. 1-23, March 1996  |                |
|                     | 28.                   | Digital Equipment Corporation, LSM Configurations, pp. 1-12, March 1996   |                |
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|                     | 31.                   | Digital Equipment Corporation, LSM Root and Swap Disk Mirroring, pp. 1-8, March 1996  |                |
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|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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